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Grogan, Nancy M.

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ABSTRACT

In July 1973 the University of New Mexico's General Library, in cooperation with the Technology Application Center, introduced a computerized search service for faculty members on a one-year experimental basis. During the study two user evaluation meetings caused some improvements to be made, particularly in the area of working more closely with faculty members in exploring the scope and depth of searches to be made. The final evaluation disclosed that faculty members particularly appreciated the time saved by the service and the comprehensive, up-to-date searches. Hany planned to make greater use of the service. The conclusion reached by the study was that the project contributed significantly to improving the quality and quantity of the teaching and research conducted by faculty users and did it in a cost effective manner. The appendixes include a list, with brief descriptions, of the 29 computerized information bases; the evaluation instruments and user comments; a list of searches performed; and a tally of searches provided for each university department. (Author/LS)

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A CENTER OF THE INSTITUTE FOR SOCIAL RESEARCH AND DEVELOPMENT THE UNIVERSITY OF NEW MEXICO ALBUQUERQUE, NEW MEXICO

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UNM GENERAL LIBRARY/ TECHNOLOGY APPLICATION CENTER LITERATURE SEARCH SERVICE AN EXPERIMENTAL PROGRAM FY 1974 FINAL REPORT

Prepared by:

Nancy M. Grogan Technology Application Center

September, 1974



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INTRODUCTION

In July 1973, the University of New Mexico's General Library, in cooperation with the Technology Application Center (TAC), introduced to the University community a new dimension in literature research: a computerized search service for faculty members. Designed to provide greater depth to the support of teaching and research than previously available, this one-year experimental program became possible through the interactive use of the information resources of both organizations. This report highlights the principal events of that program.

PROGRAM DESIGN

Behind the start-up of the new program lay a number of months of planning and negotiation. The Library need for computerized data capability (beyond that afforded by the ERIC¹ file) formed the basis for beginning discussions. TAC, with its access to 29 computerized worldwide information bases (Appendix A), could supply this capability. Discussions began early in the spring, and in the ensuing weeks the design of the program took form. Agreement was reached on costs, type of searches (e.g., retrospective, current awareness), processing mode, response time, requirements, procedures and ground rules for use, and evaluative feedback processes. One staff member from each organization was designated program function responsibility—Zanier Lane, Science/Engineering



1

¹Education Resources Information Center (a data base owned by the University and searched directly on the Campus)

Reference Librarian for the General Library, and Eugene Burch,
Assistant Director and Information Center Manager for TAC. To
underwrite the program the Library reserved \$20,000 from its
budget for the one-year period of performance. The contractual
agreement was prepared, approved by the University administration,
and signed on July 1.

PROGRAM OPERATION

The first joint retrospective search under the new program was related to the current energy crisis. It was performed for a faculty member preparing for an eleven-week systems design study on the use of hydrogen as an energy carrier and source. The report stimulated wide interest and led ultimately to publication by TAC of Hydrogen Energy 1953-73, now being sold nationally by both TAC and the National Technical Information Service (NTIS) of the Department of Commerce. By the end of the first quarter of operation, 22 searches either had been completed or were underway.

In mid-October planning began for two user evaluation meetings. The first of these took place on November 29 at which time the number of searches totaled 51. The responses to a brief premeeting questionnaire (Appendix B) were for the most part favorable, and the faculty members who attended the meeting were generally enthusiastic and supportive of the program. Specific suggestions regarding the conduct of the program included:



- Developing a more readable format and improving reproduction quality
- Providing selective extension of searching beyond computerized sources
- Including in the delivered product a listing of data bases searched
- Clarifying identification of reference index s 'ols, improving the terminology used, and eliminati. innecessary material*
- Providing opportunity for faculty members to interface and work more closely with TAC staff members assigned to carry out the searches

*Some general disappointment was expressed with search results, largely in the form of "too much garbage" i.e., irrelevant material outside and beyond the interest and need of the requester.

Following the meeting, modifications to the program to incorporate faculty recommendations were set in motion. One change, that of a pre-search meeting with the user in which the nature of the question and the scope of the search were explored in depth, proved invaluable in enhancing the end product. Several side benefits also ensued--TAC gained a new awareness and perception of the needs of the faculty, and the academic community, in turn, gained a new perspective on the capabilities of TAC and the complexity and professionalism involved in the design and production of searches.

The number of requests for searches climbed steadily as the spring semester progressed. By the end of March an additional 26 searches had been requested for a total of 77. Feedback from search evaluations in this period began to show the positive effects of the modifications. It became evident that the active participation of the faculty member in the designing and carrying out of the



search procedures had considerably improved the final product.

By carly May a total of 87 searches plus two current awareness service projects had been completed. In addition, several faculty members had ordered and paid (from their own funds) for second searches.

A final evaluation review was held on May 9. Following the format of the first meeting, a second pre-evaluation questionnaire was sent out with 75% of the users responding. Of the 63 returns, all favored continuing the service. The two most recurring reasons were:

- (1) Time saved
- (2) A more comprehensive, up-to-date search
 Other data gathered from the questionnaire included the following:
 - 40 faculty members expect to request a new literature search next year
 - 21 plan to request an update of this year's search
 - 42 would prefer a graduate student from their own department to assist with strategy development, evaluation, and organization of their search.

Results of this session brought even more favorable feedback than the first user assessment. A general feeling was expressed by many of the attendees that this kind of service should not be considered as an alternative to, or in competition with, the acquisition of books or other kinds of materials. Rather, attendees said, both are wanted and needed, and the question of choice or tradeoff does not apply.

Thirteen more searches as of May 22 brought the number of requests to 100 (Appendix C), the agreed upon cutoff for the year.



The searches and current awareness services throughout this period covered a variety of fields, 53% falling in social sciences and humanities, and 47% in science and engineering areas. Approximately 40% of University academic departments were served. Those departments with the greatest number of users were Education, Biology, Chemistry, Speech Communication, Geology, and Business Administration. A summary listing of users and purposes to which services were put is included as Appendix D.

PROGRAM SUMMARY

A recap of the year's activities indicates that:

- Faculty members have a definite need for computerized literature search services. Principal reasons: greater speed, comprehensiveness, and flexibility than can be obtained by using more traditional search techniques. As more faculty members became aware of the value of the service, use of the service increased steadily.
- A few first-time users of the service became repeat users at their own expense. Moreover, some users have indicated they will write into future grant proposals a line-item for literature searching.
- Time-savings was an enormous plus. Users reported the time saved in literature searching ran from 5 hours to "at least one year of full-time work."
- There remains some concern about irrelevant material, which may be a question of unrealistic expectations or improper focus on search strategy. Most satisfied users invested substantial amounts of time with Library and TAC operating people to work out progressively better search strategies in their particular problem areas. In the absence of such effort, search results may be disappointing.



BENEF ITS

A. Faculty Users

Since the intent of this experimental project was to provide a new and improved information and library service to the academic community, the faculty users must be the ultimate judges of benefits accruing from the program. As mentioned earlier in this report,

TAC used three means of obtaining faculty feedback-- feedback provided from search evaluations, from user assessment meetings, and from program evaluation questionnaires. This section of the report includes only highlights of that feedback.

Additional comments regarding the value of the service are included as Appendix E. Examining the overall evaluation process, it becomes apparent there are a number of specific benefits which faculty users consider important, e.g.,

- Savings of time and money with additional benefit of reducing time required in completing research and proposals as well as support for preparation and presentation of papers
- Availability of sources of material not accessible in the Library nor through the normal process of manual searches
- Aid in development of new and more up-to-date curriculum
- More effective use of graduate students by providing support and stimulation for research and dissertation work as well as providing additional time for the student to spend in the laboratory or in intellectual pursuit of subject matter.
- and finally, an inherent benefit to the University in terms of promoting its image as a quality institution because of the impact that the expanded literature background has on papers, presentations, proposals, and so forth.



The following quotes reflect in the faculty members' own words the benefits summarized above:

Dr. Douglas Ferraro, Professor of Psychology
Search: Effects of Drugs on the Acquisition or Performance
of Discrimination and Generalization of Stimuli by
Animals

"This search is of direct value to me in that it supports my professional activities of research and writing. Indeed, it facilitates these activities in a way that is simply not replaceable. Since the search supports research and the obtaining of research monies it has indirect value to students, departments and the University as a whole in the same way as other supporting agents (e.g. the computer center) and is equally important as any of these."

Dr. Jonathan Callender, Geology Search: Melange Structures

"A great time-saver, and a tremendous asset for gathering references from foreign journals (usually not readily available) -- useful teaching aid."

Dr. Charles Beckel, Professor of Physics/Astronomy
Search: The Electronic Structure, Conformations and Conformational Energies of Nucleosides, Nucleotides, Polynucleotides, DNA and RNA

"It has located articles or dissertations I probably would not find, and has saved me an enormous amount of time in locating literature I would have found."

"Has provided me with an up-to-date summary of expert theoretical work in which one of my students has been working, and in which I have a broad continuing interest."

"At least two Professors in England borrowed and made use of my Retrospective Review Service copy. Others who have seen my copy agree on the value of this service."

"I estimate this report has saved me 500-1000 hours of research."





Dr. Billy J. Watson, Special Education
Search: Short-Term Memory Studies on Normal and Handicapped Children, Ages 3-15

"The single search I was allowed to initiate has been very helpful. On the basis of this preliminary search two studies have been completed (one was reported at an International Conference) and data collection is underway in a third study."

"Provided the comprehensive information necessary to formulate

research hypotheses."

"Two students are involved in research stimulated by the

search."

"The availability of information is a key requirement in developing student research in doctoral programs. I feel the searches ease the load of already heavy schedules for professors and students. A research presentation by a student and faculty member at the International Convention of the Council for Exceptional Children should be good PR for the University."

Dr. Thomas M. Niemczyk, Chemistry Search: Infrared-Excited Visible Luminescent Materials

"Invaluable aide in the preparation of proposals and for obtaining a picture of the research being conducted in a particular field."

"Was a tremendous aide in the preparation of a research proposal. It clearly (with some organization) pointed out what work had been done in the field, gave me some new ideas of work to be done and pointed out some papers with which I was not familiar."

"I believe this proposal will be funded, benefiting the

University, supporting a graduate student, etc."

"It is difficult to estimate the number of hours which the literature search service may have saved me--maybe 1/3 of total proposal time--240-50 hours."

Dr. Byron T. Lindsey, Modern Languages
Search: Russian (Soviet) Painting and Sculpture

"It is an extremely valuable research resource, compensating to some extent for the limited sources in my field here. It saved me considerable time: this I especially appreciate. My teaching load is quite heavy."



"The search material helped me finish a paper ahead of schedule; it also gave me a more complete survey of the topic than I would have been able to do for myself. Aside from the direct research benefits, it has helped me keep informed in my field of special interest. This, of course, helps me in teaching. I can refer students interested in the topic to the primary sources."

"My paper, largely based on the search material, brings of measure of prestige to the department and the University."

Dr. Calvin A. Roberts, Criminal Justice
Search: Educational Programs & Schools for Truants, Juvenile
Delinquents and Juvenile Ex-offenders

"UNM personnel can find this a most valuable implement in isolating the scope of their research—and, after all, research for academic and social improvement is a major function of a university."

"It broadened and clarified my knowledge of my area of research. Also, it was of inestimable value as a timesaving tool. Because of the search results I am 50% farther along with my study."

"I really cannot rave enough about the TAC service:"

Dr. Charles T. Siemers, Geology Search: Modern and Ancient Biogenic Sedimentary Structures

"It is absolutely necessary in my research as well as in an

up-to-date teaching program."
"My search request on tra

"My search request on trace fossils was extremely valuable since I edit and compile a yearly newsletter on this topic. The newsletter has a distribution of about 550 with more than 250 outside of the U.S. Such information is also needed in my ongoing research."

"It is difficult to estimate value of search in number of hours when one considers that a literature search using GEOREF and other services will turn up references that would be completely missed otherwise."



Dr. Elaine Dittmar, Chemistry
Search: Electron Transfer (Oxidation-Reduction) Reactions
of Transition Metal Complexed in Solution

"In a search on a related subject, I have spent approximately 100 hours in the library and have not yet finished the search."

"While it is essential that the student learn to use library facilities effectively, he can learn as much in running down references contained in the computer searched bibliography as in compiling the bibliography. Computer searching increases student laboratory time and decreases total time required for a degree. Student time is more effectively used comprehending material than in searching for it."

"I suspect that the tone of the department will change as more computer searching is done. The laboratory should be a place of excitement. The greater the time spent in the lab, the greater the probability that this will be so. Excitement feeds on itself

and breeds an exciting department."

"A university is noted by the works produced by its scholars. Computer searches should lead to more scholarly works."

Dr. Howard McConeghey, Art Search: Art Therapy

"Saving of many hours of time and a more complete search than I could do. Helpful in preparing lectures and lesson plans. Helpful in personal research."

"Important in establishing a quality program in art therapy-to establish needed references and indicate the quality of present library holdings."

Dr. John Gluck, Psychology Search: Effects of Early Experiences on Learning

"Number of hours service saved is virtually incalculable. It has saved at least 300 hours immediately but will continue to save time in future teaching situations."

"The service is more than adequate. The problem has to do with frequency of allowable use as well as the limited population services. Graduate students could of course benefit from the service. If limitations must be made I would still permit access to graduate

students in their dissertation year."



"Given that the products of the service lead to individual growth, better research background, and more informed teachers, central hard funding seems essential. Perhaps the service could be partially or totally funded with research overhead monies. Certainly investigators should include service support as a bigger line item in grant appropriations as well. The service leads to overall excellence and therefore deserves priority funding."



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DATE

May 1, 1974

o. Pr

President Heady

DOM.

Frank A. Logan, Psychology Trends. La Lugar

SUDJECT:

The purpose of this memorandum is to enter in the file my strong endorsement of the service provided this year by the Literature Search Service of TAC. I took advantage of this opportunity to obtain an update of my reference material in the area of Discrimination Learning, a topic on which I am preparing a major monograph and on which I was teaching a graduate seminar this semester. I found the product of this search to be extremely valuable in both contexts.

I hope that funds can be made available to continue this service in the future. From my own experiences more broadly, I am confident that this type of retrieval procedure will become increasingly critical to a major research center, and UNM should certainly keep abreast of these developing resources. I grant that they are limited because the explosion of new material virtually precludes catching up with the earlier work, and that there are refinements that could improve the value of the service. Nevertheless, I was impressed by the quality of work done here and would strongly encourage its continuance.

FAL: eo

v. P. Travelstead
v. P. Silverman
Dean Wollman
Dean Harvey
Director Olivarez
Director Shinnick
L. Lane

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July 2, 1973

Mr. J. F. Harvey Dean of Library Services Zimmerman 151

Dear IIr. Larvey:

I wish to congratulate your staff and that of the Technology Application Center on the two excellent literature searches they performed for me. This has saved me an enormous amount of work in addition to finding articles which I don't think I would have found. The search for papers related to effects of salt on vegetation identified about 75 papers we were not aware of. The organization and presentation of the literature has made it a very useful document for myself and my students.

This is an extremely valuable service which I hope can be continued. I certainly plan to make use of it in the future.

Sincerely,

James R. Gosz

JRG: dr

cc: Zanier Lane Lugene Burch

THE UNIVERSITY OF NEW MEXICO ALBUQUERQUE, NEW MEXICO 87106

DEPARTMENT OF PSYCHOLOGY TELEPHONE: 505 277:4121

March 26, 1974

Dr. W. A. Shinnick Technology Application Center University of New Mexico Albuquerque, NM 87131

Dear Dr. Shinnick:

I have just finished reviewing a literature search on the topic of "Effects of CNS Drugs on Learning" prepared for me by TAC. The output is excellent and will be most helpful to me in my work. This letter is to express my appreciation for the interest and cooperation I received in interacting with TAC. Thank you.

Sincerely yours,

Douglas Peter Ferraro

Professor

DPF/yp



B. Library/TAC

That the Library considers this program highly beneficial and worthwhile both academically and economically is evidenced by a new proposal submitted to the UNM Office of Research and Graduate Affairs requesting additional funding for expansion of the services. Incorporated within that proposal are a series of statements on benefits which have accrued to the University through the program. The Library has granted permission to TAC to reproduce those statements in part for inclusion as follows:

The University has realized widespread benefits from the Literature Search Service:

The Reference Department, which is the first point of contact in seeking information whether the user is faculty or student, is able to see the overall scope of research and curricula interests and activities and to become a clearinghouse for campus information. The Library's liaison position in the LSS increases the effectiveness of the Library professional staff.

The LSS emphasizes the multidiciplinary nature of information and also the multi-departmental nature of research. At the May user meeting, Dr. Peter Montague, Architecture, stated that of the 88 searches at that time, 28 were of value to Architecture graduate students. The energy crisis has led to searches on resources for Geology such as "Geothermal Resources", searches on applications for Engineering such as "Research in Coal Gasification", and environmental searches for Biology such as "Reclamation and Revegetation of Surface Mining Sites".

In terms of dollars, the value of the service may be computed by comparing it to the investment of an over-whelming number of faculty hours used to go to the library, manually search many periodical indexes, copy citations and abstracts, evaluate and organize the material, print and bind the report. Dr. Charles Beckel, Physics, wrote: "I estimate this report has saved me 500-1000 hours of research."

The LSS provides strong research support. It indicates "hot spots" in a field and suggests ideas for possible



projects. It is especially useful for initial research in new fields for faculty members who do not yet have funded projects. It is vital to faculty members working in areas of research where funds are not available.

Successful research proposals bring money to the University in research overhead, and funded projects provide jobs for graduate students over the contract years.

Research grants, book and journal publications, conference papers, and innovative courses - all of which receive information support from the LSS - bring prestige to the faculty and to the University.

The LSS strengthens UNM in its competitive position with other educational and research institutions and aids in attracting and retaining faculty and students.

Professors who are encouraged by their administration to develop their full professional potential generate inspiration and enthusiasm in classrooms and laboratories.

Also worthy of mention are benefits which accrued to TAC specifically. Prime among these was benefit to TAC in terms of its continuing growth as an Information Center, particularly in the social sciences and related areas. Although highly competent in scientific and engineering areas the Center found itself illprepared for such broad sociological and cultural search questions as "American Gypsies: Cultural and Education Problems," "Communication Behavior of Male Homosexuals," and "Russian Painting and Sculpture." To handle such questions, TAC added skilled resource people in social sciences to its staff and began acquiring access to available data bases in the associated areas. It is, however, still limited in response capability to questions in the specific fields of music, history, and art. Limitations in some of these areas will continue to be a restricting factor because extensive computerized files have not yet amen generated. Another confining



factor is the agreement that TAC search only the computerized bases. While there have been a few exceptions to this restriction--cases where some manual searching and other means have been employed in order to provide augmentation to the search--the Library do's not normally consider manual searching by TAC economically feasible. This has been partially relieved by some of the departments making graduate students available to manually supplement the search via the Library.

Other specific benefits include:

- Upgrading of the technical competence of those staff members who participated in the program plus contributing to their intellectual growth
- Enhancement of TAC image on campus via increased exposure—the growing appreciation on the part of the faculty for the research assistance TAC can provide is most rewarding
- Student employment opportunities--additional graduate and undergraduate students found jobs as TAC expanded its work force to carry out the program.

CONCLUSION

It seems clear, particularly based on the comments of the faculty users, that this project has achieved its intended purpose and has contributed significantly to improving the quality and quantity of the teaching and research conducted by the faculty users. Moreover, it has achieved this benefit in a cost effective manner, even though specific economic benefits or gains cannot be calculated.



APPENDIX A INFORMATION RESOURCES



INFORMATION RESOURCES

The following list describes the computerized information resources currently available to the Technology Application Center for searching purposes.

COMPUTER-SEARCHABLE INFORMATION RESOURCES

January 1, 1974

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

The NASA file, dating from 1962, contains more than 590,000 documents and grows at the rate of 70,000 new entries each year. It is approximately 16% NASA-generated,

the bulk of the citations being reports (both published and unpublished) collected by NASA from worldwide sources for use in the aerospace program. These articles are abstracted in two semi-monthly journals: INTERNATIONAL AEROSPACE ABSTRACTS (IAA) and SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS (STAR). Search services available: 1 and 2*

U.S. GOVERNMENT REPORTS ANNOUNCEMENTS

The GRA file dates from October 1970 and provides excellent coverage on the physical sciences, social and life sciences, and economics. At the rate of some 2,000 cita-

tions monthly, GRA describes the technical publications issued by the various federal agencies. A retrospective search of this file will include the Defense Documentation Center file of 120,000 unclassified documents dating from mid-1964 to October 1970. Current DDC information is announced in GRA. Search services available: 1 and 2*

ENGINEERING INDEX

The Engineering Index file dates from January 1968 and is a monthly review of over 3,500 journals, conference proceedings, and other types of publications from all

parts of the world. EI is a transdisciplinary information service for engineers, technicians, and scientists needing comprehensive guides for engineering literature. This file contains about 375,000 documents and is growing at the rate of approximately 75,000 citations per year. Search services available: 1, 2, and 3*

CHEMICAL ABSTRACTS CONDENSATES

CAC is prepared by the American Chemical Society. The Condensates file, beginning in July 1968, includes the complete contents of CHEMICAL ABSTRACTS which covers

approximately 13,000 journals and 30,000 patents annually. Alternate issues deal with different areas of chemistry, and searches may be made accordingly. There are now about 300,000 abstracts appearing in CA each year. Search services available: 1 and 2*

IFI/PLENUM UNITERM INDEX
TO CHEMICAL PATENTS

The IFI file, the largest computerized collection of patents in the world, covers U.S. chemical and chemically-related patents. At present it con-

tains references to more than 280,000 U.S. patents issued since 1950 and cited in the U.S. Patent Office's OFFICIAL GAZETTE. Also included are their foreign equivalents issued in Great Britain, France, Germany, Belgium, and The Netherlands. Search services available: 1*

EDUCATIONAL RESOURCES INFORMATION CENTER

The ERIC file is a project of the Department of Health, Education and Welfare. It contains about 122,000 citations from the journals RESEARCH IN EDUCATION AND CUMULA-

TIVE INDEX TO JOURNALS IN EDUCATION, and dates from 1968. This file, which is updated quarterly, is chiefly concerned with research in the primary and secondary education fields. Search services available: 1 and 2*

WORLD TEXTILE ABSTRACTS

WTA is a consolidation of world textile literature, a result of collaboration bebetween five textile research associations in England. This file, which begins in

January 1970, contains about 55,000 citations and is expected to grow by 900 monthly. The ten subject categories cover all phases of textile production. Search services available: 1 and 2*

INSTITUTE OF TEXTILE TECHNOLOGY

The ITT file contains nearly 80,000 documents dating from 1966 to the present. Articles are abstracted in the TEXTILE TECHNOLOGY DIGEST which is published

monthly with about 1,000 abstracts in each issue. Approximately 70% of the coverage is journal literature; about 30% is patent coverage - both from worldwide sources. Search services available: 1 and 2*

MIT TEXTILE INFORMATION SYSTEM

The MIT file, containing about 11,000 items, covers the period 1950 through 1967 and is a closed file. Abstracts have been selected from the JOURNAL OF

THE SOCIETY OF DYERS AND COLOURISTS and the JOURNAL OF THE TEXTILE INSTITUTE, and include both journal and patent citations. Search service available: 1*

BIOLOGICAL ABSTRACTS

The BA file is a consolidation of biological information from worldwide sources, obtained by review of 7,400 life science journals. A computer-indexed por-

tion dates from September 1959 and contains some 1.5 million abstract references. This may be searched by one or more of four indexes: B.A.S.I.C., which includes both key word and subject indexes; an index by author; and a biosystematic (taxonomic classification) index. Search prvices available: 1 and 2*

MEDLINE

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For retrospective searching, MEDLINE gives on-line access to the contents of approximately 1,300 of 2,400 journals covered by INDEX MEDICUS, which is pub-

lished monthly by the National Library of Medicine. Coverage at present begins in January 1970 and to date there are over 400,000 citations in the system. New references are being added at a rate of 12,000 per month. For monthly current awareness searching, the data base is the entire 2,400 journals - not just the 1,300 in the retrospective file. TAC has access to the National Library of Medicine's MEDLINE network through the Medical Sciences Library of the University of New Mexico in Albuquerque. Search services available: 1 and 2*

FOOD SCIENCE AND TECHNOLOGY ABSTRACTS

The International Food Information Service, widely recognized as the world's leading information service in food science and technology, has as its primary output the

monthly journal FOOD SCIENCE AND TECHNOLOGY ABSTRACTS (FSTA). Document abstracts, selected from more than 1,200 journals (plus some patents and books), are added to FSTA at the rate of approximately 1,100 per month. Search services available: 2* (1 will be offered soon).

SMITHSONIAN SCIENCE INFORMATION EXCHANGE

Unlike other data bases which record only completed work, SSIE covers research projects currently in progress. SSIE annually collects from 85,000 to 100,000

records of on-going research funded by both private and public sources; however, the emphasis is on federally-funded projects. The collection covers all phases of basic and applied research in the physical, life, social and behavioral sciences, and engineering. The two most recent years are included in a retrospective search. Current awareness searches are available on a quarterly basis. Search services available: 1 and 2*

TOXICITY BIBLIOGRAPHY

The Toxicity Bibliography file, dated from January 1968, contains more than 70,000 citations with index terms on articles of toxicity studies, adverse drug reactions,

and poisonings in humans and animals. Search services available: 1 and 2*

CHEMICAL-BIOLOGICAL ACTIVITIES

The Chemical-Biological Activities file contains more than 165,000 citations with abstracts and Chemical Abstracts Service (CAS) registry numbers on current scien-

tific and technical literature as compiled by the Chemical Abstracts Service. The file dates back to 1965 and is current through June 1973. Search services available: 1 and 2*



ABSTRACTS ON HEALTH
EFFECTS ON ENVIRONMENTAL
POLLUTANTS

This file dates from January 1972 and at present contains 14,000 citations, most of them with abstracts and CAS registry numbers, of articles on the effects of

chemicals---other than medicinal---on humans and animals, and analytical methodology taken from the abstract journal produced by Biological Abstracts. Search services available: 1 and 2*

INTERNATIONAL PHARMACEUTICAL ABSTRACTS

The International Pharmceutical Abstracts, dated from January 1970 to March 1973, contains 16,500 citations with abstracts of articles on new trends and developments

related to drugs from the American Society of Hospital Pharmacists. Search services available: 1 and 2*

HEALTH ASPECTS OF PESTICIDES

The Health Aspects of Pesticides contains more than 13,000 citations with abstracts and CAS registry numbers of articles on the health effects of pesticides in human

and animals; pesticides residue analysis and monitoring. The file covers the time period from January 1966 through June 1973. Scarch services available: 1 and 2*

HAYES FILE ON PESTICIDES

This file covers the time frame from 1950 through 1966 and consists of an unpublished collection of more than 10,000 citations of articles on health effects of pesticides.

Search services available: 1*

BIBLIOGRAPHY OF AGRICULTURE

The complete Bibliography of Agriculture files from the National Agricultural Library. The file consists of over 400,000 records and has coverage from 1970 to present.

This data base provides comprehensive worldwide coverage of the literature on agriculture. Search services available: 1 and 2*

PSYCHOLOGICAL ABŞTRACTS

The American Psychological Association has issued the psychological abstracts since 1967. This file provides comprehensive coverage of the world's leading

journal articles in psychology. The file contains more than 125,000 citations. Search Services available: 1 and 2*

THE NEW YORK TIMES INFORMATION BANK

This information bank will search through thousands of documents in seconds to bring hard facts on reports, speeches, public statements,

press releases, etc., as announced in the New York Times, other journals and newspapers. The file dates from 1970 to present. Search services available: 1 and 2*

SCIENCE CITATION INDEX SEARCH SERVICE

The Science Citation Index contains a complete range of scientific and technical literature that makes searches easier and more productive.

It identifies cross disciplinary relationships missed by the conventional subject indexes. The file is very useful to scientists, technologists, product and market planners and research management. The file is growing at a rate of 370,000 journal articles per year. Search services available: 1 and 2*

SOCIAL SCIENCES CITATION INDEX-SEARCH SERVICE This file is current in that it starts with literature of 1973. It contains journal literature in the social sciences and is available for searching by highly

trained information scientists. Search services available: 1 and 2*

METADEX

METADEX is Metal Abstracts Index on magnetic tape. The monthly index on magnetic tape contains for each of the over 2000 articles cited:

- ...an average of six to eight index terms
- ... complete citation of the original articles
- ...accession numbers corresponding to abstract number in Metal Abstracts
 The master file data base is available from January 1966. Search services available: 1 and 2*

INSPEC-SCIENCE ABSTRACTS

The INSPEC file consists of three major components and the user may call up any one of the following volumes: Physic Abstracts, Elec-

tronics and Electronic Abstracts and Computer and Control Abstracts. This file extends back through 1969 and comprises approximately 500,000 records.



ABSTRACTED BUSINESS INFORMATION (ABI) ANNOUNCEMENTS

ABI comprises 271 business-oriented periodicals. The file includes nationally acclaimed periodicals such as, The Harvard Business Review and it

includes local or regional journals, for example, the Mississippi Valley Journal of Business and Economics. It permits one to search areas like business specifications, accounting, marketing, data processing, industrial relations, insurance, banking, general management, finance or advertising.

GEO · REF

GEO·REF is a service of the American Geological Institute. It offers a retrospective search service providing answers to queries addressed to its

bibliographic data base containing citations from over 4000 of the world's primary geological journals, monographs and symposium proceedings from 1966 up to the most recent month's entries. Each retrieved reference contains the original language title, an English translation of the foreign title, senior and junior authors, the full publication data, and content notes: 1*

*SEARCH SERVICES AVAILABLE

- 1. RETROSPECTIVE searches (from earliest date of file to latest citation)
- 2. CURRENT AWARENESS (regularly scheduled searches for latest information of a client-selected subject)
- 3. STANDARD INTEREST PROFILES (regularly scheduled searches on a topic of general interest)



APPENDIX B

QUESTIONNAIRE FIRST USER MEETING (11-29-73)



AGENDA AND QUESTIONNAIRE FOR USER EVALUATION AND MEETING

LESS	MORE
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	Responses: 39% 6 - 7 range
	61% 4 - 5 range
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	34% 4 - 5 range
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	reported in body of report (p 3)
	reported in body or report (p 3)
	
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	NAME:



APPENDIX C LIST OF LITERATURE SEARCHES



UNM GENERAL LIBRARY LITERATURE SEARCH SERIES

LSS-001	"Hydrogen - A New Fuel and Energy Source" Dr. Kenneth Cox, Chemical and Nuclear Engineering
LSS-002	"Solar Cells Produced from Gallium Arsenides and Gallium Phosphides" R. Pancholy, Engineering Research
LSS-003	"Methods of Control of Tamarix Pentandra" Dr. Loren D. Potter, Biology
LSS-004	"Reclamation and Revegetation of Surface Mining Sites" Dr. James R. Gosz, Biology
LSS-005	"The Effects of Road Salting on the Environment" Dr. James R. Gosz, Biology
LSS-006	"Communication Disorders of Prisoners" Dr. Lloyd E. Lamb, Communicative Disorders
LSS-007	"The Electronic Structure, Conformations and Conformational Energies of Nucleosides, Nucleotides, Polynucleotides, DNA and RNA" Dr. Charles L. Beckel, Physics
LSS-008	"Algae Produced Phosphatase Enzymes" Dr. Gordon V. Johnson, Biology
LSS-009	"Infrared-Optical Technology" Dr. Harold D. Southward, Engineering Research
LSS-010	"The Biology of Arid-Land Invertebrates" Dr. Clifford S. Crawford, Biology
LSS-011	"The Chemistry and Biochemistry of the Antibiotic Actinomycin" Dr. Ulrich Hollstein, Chemistry



- U.S. Government Control Over Supply and Utilization
 of Energy Resources"
 Miss Linda Lewis, General Library
- LSS-013 "Cyclobutene"
 Dr. Edward A. Walters, Chemistry
- LSS-014 "Short-Term Memory Studies on Normal and Handicapped Children, Ages 3-15"

 Dr. Billy L. Watson, Special Education
- LSS-015 "Solar Cells and Thermoelectric Generators"

 Dr. W.W. Grannemann, Electrical Engineering and Computer

 Science
- LSS-016 "Relationships Between Pupil Success and Ecological-Demographical Variables"

 Dr. James G. Cooper, Educational Foundations
- United States"

 Dr. Roger Y. Anderson, Geology
- LSS-018 "Cattle Feedlot Effect and Management"
 Prof. Peter Montague, Architecture
- LSS-019 "Nonrelativistic Quantum Mechanical Scattering" Dr. Colston Chandler, Physics and Astronomy
- LSS-020 "Mammalian Hibernators" Dr. M.L. Riedesel, Biology
- LSS-021 "Futurism"
 Dr. Daniel M. Slate, Business
- LSS-022 "Water Quality Information and Standards" Dr. William M. Hadley, Pharmacy
- LSS-023 "Cardiac Output as Measured by Ultrasound Techniques"
 Dr. C. Hawkins, Electrical Engineering and Computer Science
- LSS-024 "Private Long-Term Foreign Investment in Latin American 1968-1972" Dr. Donald G. Tailby, Economics
- LSS-025 "American Gypsies: Cultural and Educational Problems"
 Dr. Albert Vogel, Educational Foundations



- LSS-026 "Juvenile Delinquents - Sex Crimes" Dr. Samuel Roll, Psychology "Strategies for Research Dissemination" LSS-027 Dr. K.C. Lersten, HPER "Chemotaix in Amoebae" LSS-028 Dr. Don R. McLaughlin, Chemistry "Dance Forma and Dances, 1540-1850, in New Mexico, LSS-029 Texas, Arizona and Northern Mexico" Dr. William M. Litchman, Chemistry "Role Theory Research and Secondary School Teachers Roles" LSS-030 Dr. R.L. Wagoner, Secondary Education "Cadmium in the Marine Environment" LSS-031 Dr. George R. Clark II, Geology "Modern and Ancient Biogenic Sedimentary Structures" LSS-032 Dr. Charles T. Siemers, Geology "Data Accuracy, Integrity and Security" LSS-033 Dr. Fred F. Newpeck, Business "Dogmatism and Self-Concept" LSS-034 Dr. Wayne Moellenberg, Educational Foundations "Male Socioreligious Penitential Societies in Spain and LSS-035 Spanish Colonial New World" Dr. Thomas R. Lyons, Anthropology "Numerical and/or Analytic Analysis of Plasma Sheaths" LSS-036 Dr. Willis L. Everett, Nuclear Engineering
 - LSS-037 "Arclog, Digital, and Hybrid Control of Nuclear Reactor Power Plants, Including Analog, Digital, or Hybrid Simulation of Electric Power Plants Dr. Robert L. Long, Nuclear Engineering
- LSS-038 "Politics of School Board Elections Where Ethnic Minorities are Involved"

 Dr. David L. Bachelor, Educational Foundations



- "Tungsten Geochemistry" LSS-039 Dr. Gary P. Landis, Geology "Natural Resources and Water on Indian Reservations in USA" LSS-040 Mr. Harvey Paymella, Native American Studies "Nutrient Cycling in Natural and Disturbed Ecosystems" LSS-041 Dr. James R. Gosz. Biology "Motorized Recreational Vehicles" LSS-042 Dr. Steve Rubio, HPER "Individual Differences in Motor Learning and Performance" LSS-043 Dr. John I. Todor, HPER "Plates and Shells with Holes and Subjected to Combined LSS-044 Inplane and Laterial Loads" Dr. Frederick D. Ju, Mechanical Engineering "Auditing Communication Behavior in Complex Organizations" LSS-045 Dr. Gerald Goldhaber, Speech Communications "Social Effects of Sex Differences, Sex Roles" LSS-046 Dr. Ralph D. Norman, Psychology "The Meteorological Glory Phenomenon" LSS-047 Dr. Howard C. Bryant, Physics and Astronomy "Continuing Education as a Requirement for Members of LSS-048 the Professions" Dr. Karl Christman, Business "Geothermal Resources LSS-049 Dr. George R. Jiracek, Geology
- LSS-050 "The Use of Management by Objectives in Library
 Administration"
 Mrs. Mary Ellen Hanson & Mrs. Neosha Mackey,
 UNM General Library
- LSS-051 "Communication Behavior of Male Homosexuals"
 Dr. Gerald Goldhaber, Speech Communication



LSS-052 "Russian (Soviet) Painting and Sculpture" Dr. Byron T. Lindsey, Modern Languages "Feasibility of Computers in Small Architectural Firms" LSS-053 Don P. Schlegal, Department of Architecture "Small Groups" LSS-054 Dr. Dodd H. Bogart, Sociology "Communications in Police Departments" LSS-055 Dr. Estelle Zannes, Speech Communications "Citizen Activism in Broadcast Criticism" LSS-056 Dr. Richard M. Krause, Speech Communications "Draftees and Volunteers in the Armed Forces - U.S., LSS-057 Britain, and West Germany" Robert S. Landmann, ISRAD "Discrimination Learning" LSS-058 Dr. Frank A. Logan, Psychology "The Group as a Medium for Changing Individuals" LSS-059 Dr. Wayne Pace, Speech Communications "Acupuncture, Electroacupuncture, Electroanesthesia, LSS-060 Electroanalgesia" Dr. Richard H. Williams, Electrical Engineering and Computer Science "Nutritional and Biochemical Characteristics of the LSS-061 Sulfur Bacteria" Dr. Larry Barton, Biology "Melange Structures" LSS-062 Dr. Jonathan Callender, Geology "Infrared-Excited Visible Luminescent Materials" LSS-063 Dr. Thomas M. Niemczyk, Chemistry "Impact of Training Programs for Top Management" LSS-064 Dr. Howard V. Finston, Business Current Awareness Profile LSS-065

Dr. David L. VanderJagt, Chemistry



- LSS-066 "Politics and Technology"

 Dr. Jay B. Sorenson, Political Science
- LSS-067 "The Effect of Health on Marriage Stability"
 Professor David Courtney, Sociology
- LSS-068 "Expenditures of Public School Physical Plant Facilities"
 John D. Giesler, Continuing Education
- LSS-069 "Educational Programs & Schools for Truants, Juvenile Delinquents and Juvenile Ex-offenders
 Calvin A. Roberts, Criminal Justice
- LSS-070 "Ion Selective Electrodes"
 Professor N.E. Vanderborgh, Chemistry
- LSS-071 "The Photochemical and Photophysical Properties of Chromium (III) Complexes"
 William Coleman, Chemistry
- LSS-072 "Research & Studies of Probation Systems, Innovative Probation Parole Methods"

 Barbara Schenkel, Criminal Justice
- LSS-073 "In Situ Recovery of Oil from Shale" Herbert Nuttal, Jr.
- LSS-074 "Research In Coal Gasification"
 Dr. Glenn Whan, Chemical and Nuclear Engineering
- LSS-075 "Effects of Drugs on the Acquisition or Performance of Discrimination and Generalization of Stimuli by Animals"

 Douglas Ferraro, Psychology
- LSS-076 "A Project to Develop the Criteria of an Effective Teacher in the Self-Paced Module Program"
 Dianna J. McDonald, Nursing
- LSS-077 "Return on Investment and/or Return on Equity on U.S. Government Cost Plus Fixed Fee Type Contracts"

 John A. Yeakel, Business and Administrative Sciences
- LSS-078 "Art Therapy"
 Howard McConeghey, Art



- LSS-079 "Electron Transfer (Oxidation-Reduction) Reactions of Transition Metal Complexed in Solution" Elaine Dittmar, Chemistry
- LSS-080 "Attitudes, Behavior, Counseling of Mental Retardation"
 Glen Van Etten, Special Education
- LSS-081 "Computer Assisted Instruction vs. Achievements and Success"
 L. Rosasco, Education
- LSS-082 "Energy Conservation Technology"
 Dr. K. T. Feldman, Mechanical Engineering
- LSS-083 "Attitude Formation & Change, Opinion Formation & Change, Belief Formation & Change, & Persuasion"

 T. G. Plax, Speech Communication
- LSS-084 "Communication in the Classroom"

 Lawrence B. Rosenfeld, Speech Communication
- LSS-085 "Relationship of Various Demographic Factors with a Language Behavior and Characteristics"

 Jean Civikly, Speech Communication
- LSS-086 "Geology and Geochemistry of Uranium Deposits" Douglas G. Brookins, Geology
- LSS-087 "Cities & Towns Built on or in the Oceans or Seas"
 John Borrago, Architecture
- LSS-088 "Thermodynamics Applied to Biochemical Systems" Fritz Allen, Chemistry
- LSS-089 Quick Clays & Loess as Possible Surface Materials in the Circumpolar Region of Mars W.E. Elston, Geology
- LSS-090 Medicinal Uses of the Chemical Compound Adamantane Dr. Cary Morrow, Chemistry
- LSS-091 Metal-Metallaporphyrin Exchange Reactions in Petroleum and other Solvents
 Robert E. Tapscott, Chemistry



LSS-092	Geology, Biology & Oceanography of the Gulf of California, Mexico Charles T. Siemers, Geology	
LSS-093	Analysis and Design by Computer Bruce Peterson, Electrical Engineering	
LSS- 094	Communication Styles in Interviews or Dyadic Interaction with Clients of Low Socio-economic Standing Professor R. Wayne Pace, Speech Communication	
LSS-095	Rock Mechanics Johnathan Callender, Geology	
LSS-096	Effects of Early Experiences on Learning John Gluck, Psychology	
LS S-097	Behavior Modification & Other Therapeutic Behavior Change in Prison Setting Karl Koenig, Psychology	
LSS- 098	Impulivity Samuel Roll, Psychology	
LSS-099	Intercultural Communications Jean M. Civikly, Speech Communication	
LSS-100	Column Chromatography	



APPENDIX D SUMMARY LISTING OF USERS AND PURPOSES OF USE



	Total Searches 1973-74		
ARTS AND SCIENCES Anthropology Biology Chemistry Communicative Disorders Economics Geology Modern and Classical Languages Physics Political Science Psychology Sociology Speech Communication	1 8 13 1 10 1 3 1 7 2		
BUSINESS AND ADMINISTRATIVE SCIENCES	5		
EDUCATION Art Education Educational Foundations HPER Native American Studies Secondary Education Special Education	1 5 3 1 1 2		
ENGINEERING Chemical and Nuclear Electrical and Computer Science Mechanical	5 4 2		
FINE ARTS Architecture	3		
NURSING	1		
PHARMACY .	1		
BUREAU OF ENGINEERING RESEARCH	2		
CONTINUING EDUCATION	1		
GENERAL LIBRARY	2		
ISRAD Criminal Justice Program TOTALS	1 2 100		
Use analysis of 100 searches, 1973-1974: Curriculum development, teaching, student research - *55% Publications or conference papers 33% Research proposals or projects 64% *The majority of searches were used in two or more of these areas.			



APPENDIX E

ADDITIONAL USER COMMENTS RE VALUE OF SERVICE (SECOND QUESTIONNAIRE 4-24-74)



Excerpted from second questionnaire (4-24-74).

PLEASE COMMENT ON THE DIRECT AND INDIRECT VALUES OF YOUR SEARCH:

"I have an excellent search that is broad enough to cover several areas of interest to me. I am also interested in several of the searches filed in the library."

"A great time saver and much benefit to the research to have

a really thorough search."

"Makes a more solid grant application generating equipment and overhead."

Dr. Allen, Chemistry

"It provided me with a number of interesting references that were new; it searched a wider base than I would have, giving me confidence that nothing important has been overlooked; it searched areas that I am interested in for future research work."

"It furthered my research. The search has also been used by A.G. Gibson in the Math Department."

Dr. Chandler, Physics

"Saved me a good deal of time; poked into sources I might have missed."

"It may result in some publishable research."

Dr. Courtney, Sociology

"Provided initial step in the compilation of "Hydrogen Energy" Aided in NASA-ASEE 1973 summer design institute. Used for proposal writing."

"Some students helped in creative laboratory course in ChE. Dept."

"A research area established within the Dept."

"Aided in starting the Energy Information Center of UNM jointly with TAC."

"Further use to the outside community in the form of future

Energy Info. Ctr. publications."

Dr. Cox, Chem. & Nuclear Engr.

"It has helped locate references useful in writing grant

proposals and research papers."

"It has been of some indirect value to my graduate students who have obtained references from me. It will be very useful for my teaching of a 400-level course in the area."

Dr. Crawford, Biology



"Saving of my time. The TAC search is relatively thorough and covers different bases than I would normally use. Saving of students' time. Dissertations and theses are more readily defined and carried out."

"Soft money from contracts is of benefit to the department and the university."

Dr. Feldman, M.E.

"The search was just completed. I anticipate that it will be of great value to me, to students majoring in organizational behavior, and, in fact, to academicians and practicing managers throughout the country."

Dr. Finston, Business

"Probably a more thorough search than I would be able to do."

"Making available a large portion of the literature on a subject in a summary document."

"Facilitating proposal preparation."

Dr. Gosz, Biology

"I have had such a poor experience in finding material in the Library. It is very helpful to have access to other references." Dr. Giesler, Continuing Education

"It saved me an enormous amount of time."

"It showed the students what could be done with a computer based literature search."

"Eventually research funding may come from the State or U.S. as an indirect result of work on water quality which the literature search was used to support."

"More money eventually and better student training. The people of New Mexico will ultimately benefit (hopefully) through improved water quality."

Dr. Hadley

"Our search was helpful personally since I wished to know more about library management techniques for my own work. Insofar as library work (processing) is involved, there has been no immediate application. However the study may prove helpful in future planning."



"The study has statewide application, since it was used as preparation for a statewide workshop on library management which took place on January 19, 1974. Over 75 librarians from public, state, school, special and academic libs. attended."

Mary Ellen Hanson, Library

"I have used the material as part of my work with the Governor's Energy Task Force on Geothermal Energy. Most of the references are unfortunately not accessible from our library, however."

"Students will be using the material now that three students are RA's on a geothermal project."

Dr. Jiracek, Geology

"It has provided a good indication of recent work in this area, bringing to my attention several important papers which I had not been aware of. In addition many significant peripheral papers were cited."

"If I have graduate students working on this or related problems in the future, it provides an excellent literature survey

for their use."

"It has been used by two research associates (post-doctoral students) in the Department of Biology."

Dr. Johnson, Biology

"Saved me hundreds of hours in literature search--even though I had a good start into the subject!"

"Brought students exposure to more current and comprehensive literature."

"Possible research grant to fund some studies that the TAC dealt with. Input of additional research and development of new expertise in department--TAC reports make these efforts much easier."

Dr. Landis, Geology

"The information could not have been found by a manual search. As such, it provided information unavailable from any other means."

Linda Lewis, Library

"Gave me an instant overview of field. Indicated "hot spots" in research. Saved much work, working with unfamiliar library materials. Will benefit department when research suggested by search is completed."

Dr. McLaughlin, Chemistry



"It saved me a great deal of time and searched data-bases to which I would not otherwise have had access."

"It provided my students with up-to-date citations to much relevant literature on an important environmental problem. Students in the Architecture Department are generally weak in research abilities, so this service was of particular value to them."

"The State's citizens will all ultimately benefit as we make a contribution to the solution of the environmental problems associated with feedlots."

Dr. Montague, Architecture

"Exceedingly valuable. Has furthered my research a great deal."

"Has been of value to students in that my research has led to use in classroom teaching and undergraduate research." Dr. Norman, Psychology

"Provides the valuable information for publication needs. Provides students research materials."

Dr. Rubio, HPER

"It will be extremely valuable to me in the development and implementation of three research projects--references and other similar research and their results are vital aspects of the research I am conducting."

"Findings of other studies could benefit the criminal justice system and the community of Albuquerque. It is possible that new programs might be attempted on the basis of the finding."

Mrs. Schenkel, Criminal Justice

"Because of information overloads, a search such as you undertook for me makes it easier for all of us to get our job done more efficiently and effectively."

Dr. Slate, Business

"Assistance to me in course preparation and research. I sent study over to Sandia Labs. They found it helpful."

Dr. Sorenson, Political Science

. .



"Saves time, does a better job. Also these searches give a feeling of completeness that often can be lacking in usual ones."

Dr. Vanderborgh, Chemistry

"Provides rapid, comprehensive survey of literature on the subject."

"Values are chiefly the time saved for me and my students to do useful work."

Dr. Walters, Chemistry

"Very helpful in preparation of research proposals."

"Saves much time for students on thesis and dissertation."

"Primarily direct support for research programs."

Dr. Whan, Chemical & Nuclear Engr.

"The search on 'Acupuncture' has already been valuable in helping us to organize a research approach: What types of things are people doing, and not doing, etc. This can be gleaned simply from the titles. Specific papers will, of course, be more helpful as we focus in on a specific area or topic. A graduate student and I have already begun to outline more research to be done this summer. Hopefully, the student will write his dissertation in this area."

Dr. Williams, Electrical Engineering

"Personal satisfaction and confidence gained from knowing that the literature available has been examined."

Dr. M.L. Riedesel, Biology

"Research—any university research—is of educational value. New research benefits students, department, Engineering College, University."

Dr. Frederick Ju, Chairman, Mechanical Engineering

"Saves hours of professional time."

"Students learn the best and most recently available literature-can compete with better schools."

"Helps push UNM into more up-to-date league."

Dr. Bogart, Sociology



"Savings in time which can now be spent in using the TAC product in research, and in teacher preparation."

"Graduates can learn this technological aid; all levels can have referral to sources provided to the professor."

"Sharing of documents among faculty with common interests (would like to see an additional copy of the TAC product for departmental libraries)."

"Hopefully will keep faculty 'on top' of area and present

a knowledgeable image for the university."

Dr. Civikly, Speech

"Saved me time and energy--gave students new information and resources (quickly)."

Dr. Goldhaber, Speech

"Discovery of additional references that I was completely unaware of."

"Formed basis for a paper that I presented on change and strategies for change in organizations in education."

Dr. Lersten, HPER

"Enormous savings in time."

"Encourages research, saves faculty time, improves graduate study."

Dr. Moellenburg, Educational Foundations

"Helped prepare two major publications and brought me up to date for teaching Intro to Graduate Study."

"Students will be better informed and (some) will have a couple of top-rated books to read."

Dr. Pace, Speech Communication

"Great for me--even greater for students."

"Sex Offender Program in city used the information--were very happy to have it."

Dr. Roll, Psychology



"Helps me (a) teach my classes better (the material is applicable to all the classes I teach), (b) prepare the manuscript for a book I am writing (on the social-psychology of education), and (c) helps my students by serving as a comprehensive bibliography for them."

"My marriage is more secure given that I can spend the time I would in the library at home (or at least some of it)!"

"Saved at least one year of full-time work."

Dr. Rosenfeld, Speech

"Literature search this year was used as preparation for and suggested readings for grad. class. Was of great value in both respects."

Dr. Wagoner, Education

